

What is claimed is:

1. An electrical double-layer capacitor comprising an electrode element consisting of a separator and a pair of electrodes disposed opposite to each other with said separator interposed therebetween, said electrode element being impregnated with a nonaqueous electrolyte solution, wherein said nonaqueous electrolyte solution is prepared by dissolving a quaternary ammonium salt in a cyclic carbonate, and the impurities contained in said nonaqueous electrolyte solution impregnated into said electrolyte element comprise 30 ppm or less of glycols, 30 ppm or less of primary alcohols and less than 20 ppm of tertiary amines.
2. The electrical double-layer capacitor according to claim 1, wherein a water content in said nonaqueous electrolyte solution impregnated into said electrolyte element is 50 ppm or less.
3. The electrical double-layer capacitor according to claim 1, wherein said quaternary ammonium salt is triethylmethylammonium tetrafluoroborate.
4. The electrical double-layer capacitor according to claim 1, wherein said cyclic carbonate is propylene carbonate.
5. The electrical double-layer capacitor according to claim 4, wherein said nonaqueous electrolyte solution is prepared by dissolving triethylmethylammonium tetrafluoroborate in

propylene carbonate in a concentration ranging from 0.1 to 2.5 mol/liter.

6. The electrical double-layer capacitor according to claim 1, wherein said electrode is a polarizable electrode composed using an activated carbon.